

# Фильтры F1

## Технические характеристики

### По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Россия (495)268-04-70

Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Казахстан (7172)727-132

Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

## Features

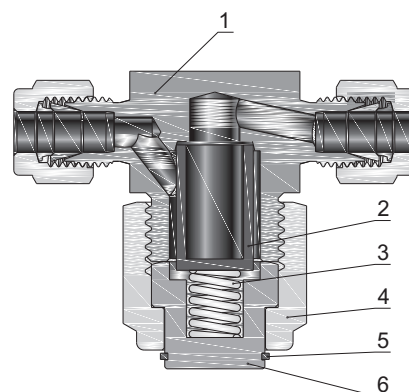
- ❖ Filter element replaceable without removing body filter from installation
- ❖ Optional bypass enables a continuous self cleaning flow around the element
- ❖ Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 90 µm
- ❖ Nominal pore sizes for strainer element: 100, 150, 250 and 450 µm
- ❖ Maximum working pressure up to 6000 psig (413 bar)
- ❖ Working temperature from -20°F to 900°F (-28°C to 482°C)
- ❖ Stainless steel and brass construction
- ❖ Variety of end connections

## Pressure vs. Temperature

| Material              | 316 S.S.                     | Brass      |
|-----------------------|------------------------------|------------|
| Temperature, °F(°C)   | Working Pressure, psig (bar) |            |
| -20 (-28) to 100 (37) | 6000 (413)                   | 2000 (137) |
| 200 (93)              | 5160 (355)                   | 1730 (119) |
| 300 (148)             | 4660 (321)                   | 1470 (101) |
| 400 (204)             | 4280 (294)                   | —          |
| 500 (260)             | 3980 (274)                   | —          |
| 600 (315)             | 3760 (259)                   | —          |
| 650 (343)             | 3700 (254)                   | —          |
| 700 (371)             | 2600 (248)                   | —          |
| 750 (398)             | 3520 (242)                   | —          |
| 800 (426)             | 3460 (238)                   | —          |
| 850 (454)             | 3380 (232)                   | —          |
| 900 (482)             | 3280 (225)                   | —          |

## Standard Materials of Construction

| Component |                | Material Grade/ASTM Specification      |                  |
|-----------|----------------|----------------------------------------|------------------|
|           |                | 316 S.S.                               | Brass            |
| 1         | Body           | 316 S.S./A479                          | Brass C36000/B16 |
| 2         | Element        | Sintered 316 S.S. or strainer 316 S.S. |                  |
| 3         | Spring         | 304 S.S./A313                          |                  |
| 4         | Bonnet Nut     | 316 S.S./A479                          | C36000/B16       |
| 5         | Retaining Ring | 316 S.S./A276                          |                  |
| 6         | Bonnet         | 316 S.S./A479                          | C36000/B16       |



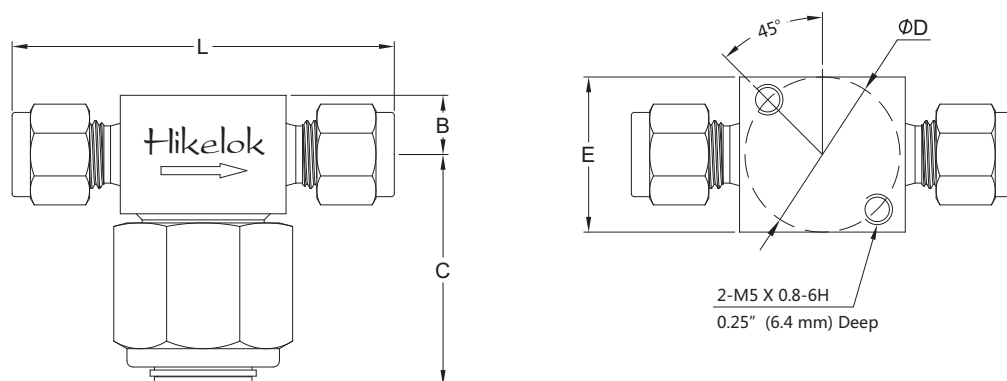
## Maximum Differential Pressure of Clean Filter at 70°F (20°C)

| Maximum Differential Pressure psig (bar) |                 |                 |                 |                |                |                |                |                |                |                |
|------------------------------------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 0.5 micron                               | 2 micron        | 7 micron        | 15 micron       | 40 micron      | 60 micron      | 90 micron      | 100 micron     | 150 micron     | 250 micron     | 450 micron     |
| 2250<br>(155.2)                          | 2250<br>(155.2) | 1950<br>(134.5) | 1750<br>(120.3) | 1150<br>(79.3) | 1150<br>(79.3) | 1000<br>(68.9) | 1000<br>(68.9) | 1000<br>(68.9) | 1000<br>(68.9) | 1000<br>(68.9) |

## Elements

| Nominal Pore Size $\mu\text{m}$ | Pore Size Range $\mu\text{m}$ | Element Type |
|---------------------------------|-------------------------------|--------------|
| 0.5                             | 0.5 to 2                      | Sintered     |
| 2                               | 1 to 4                        |              |
| 7                               | 5 to 10                       |              |
| 15                              | 11 to 25                      |              |
| 40                              | 35 to 53                      |              |
| 60                              | 50 to 75                      |              |
| 90                              | 75 to 100                     |              |
| 100                             | —                             | Strainer     |
| 150                             | —                             |              |
| 250                             | —                             |              |
| 450                             | —                             |              |

## Dimensions



| Basic<br>Ordering<br>Number | Connection Type<br>and Size | Orifice<br>in.(mm) | Filter<br>Series | Dimension, in. (mm) |             |             |             |             |              |
|-----------------------------|-----------------------------|--------------------|------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
|                             |                             |                    |                  | L                   | B           | C           | ØD          | W           | F            |
| F1-F2-                      | 1/8" Hikelok                | 0.094 (2.39)       | 4                | 2.27 (57.7)         | 0.38 (9.7)  | 1.49 (37.8) | 1.00 (25.4) | 1.00 (25.4) | 1 (25.4)     |
| F1-F4-                      | 1/4" Hikelok                | 0.174 (4.41)       | 4                | 2.47 (62.7)         |             |             |             |             |              |
| F1-F6-                      | 3/8" Hikelok                | 0.213 (5.41)       | 8                | 2.84 (72.1)         | 0.46 (11.7) | 1.74 (44.2) | 1.13 (28.7) | 1.13 (28.7) | 1 1/8 (28.6) |
| F1-F8-                      | 1/2" Hikelok                | 0.250 (6.35)       | 8                | 3.04 (77.2)         | 0.53 (13.5) | 1.81 (46.0) |             |             |              |
| F1-M6-                      | 6 mm Hikelok                | 0.174 (4.41)       | 4                | 2.46 (62.5)         | 0.38 (9.7)  | 1.49 (37.8) | 1.00 (25.4) | 1.00 (25.4) | 1 (25.4)     |
| F1-M8-                      | 8 mm Hikelok                | 0.213 (5.41)       | 8                | 2.84 (72.1)         | 0.46 (11.7) | 1.74 (44.2) | 1.13 (28.7) | 1.13 (28.7) | 1 1/8 (28.6) |
| F1-M10-                     | 10 mm Hikelok               | 0.250 (6.35)       | 8                | 2.86 (72.6)         |             |             |             |             |              |
| F1-M12-                     | 12 mm Hikelok               | 0.250 (6.35)       | 8                | 3.04 (77.2)         | 0.53 (13.5) | 1.81 (46.0) |             |             |              |
| F1-FSW4-                    | 1/4" FSW                    | 0.174 (4.41)       | 4                | 1.68 (42.7)         | 0.38 (9.7)  | 1.49 (37.8) | 1.00 (25.4) | 1.00 (25.4) | 1 (25.4)     |
| F1-FSW6-                    | 3/8" FSW                    | 0.174 (4.41)       | 4                |                     |             |             |             |             |              |
| F1-FBW4-                    | 1/4" FBW                    | 0.174 (4.41)       | 4                |                     |             |             |             |             |              |
| F1-FBW6-                    | 3/8" FBW                    | 0.174 (4.41)       | 4                |                     |             |             |             |             |              |
| F1-FNPT2-                   | 1/8 Female NPT              | 0.094 (2.39)       | 4                | 2.00 (50.8)         | 0.46 (11.7) | 1.74 (44.2) | 1.13 (28.7) | 1.13 (28.7) | 1 1/8 (28.6) |
| F1-FNPT4-                   | 1/4 Female NPT              | 0.174 (4.41)       | 4                | 2.13 (54.1)         |             |             |             |             |              |
| F1-NPT4-                    | 1/4 Male NPT                | 0.174 (4.41)       | 4                |                     |             |             |             |             |              |
| F1-NPT6-                    | 3/8 Male NPT                | 0.213 (5.41)       | 8                | 2.38 (60.5)         | 0.53 (13.5) | 1.81 (46.0) | 1.13 (28.7) | 1.13 (28.7) | 1 1/8 (28.6) |
| F1-NPT8-                    | 1/2 Male NPT                | 0.250 (6.35)       | 8                | 2.75 (69.9)         | 0.63 (16.0) | 1.91 (48.5) |             |             |              |
| F1-GFS4-                    | 1/4 Male GFS                | 0.174 (4.41)       | 4                | 2.30 (58.4)         | 0.38 (9.7)  | 1.49 (37.8) | 1.00 (25.4) | 1.00 (25.4) | 1 (25.4)     |
| F1-GFS8-                    | 1/2 Male GFS                | 0.250 (6.35)       | 8                | 2.55 (64.8)         | 0.46 (11.7) | 1.74 (44.2) | 1.13 (28.7) | 1.13 (28.7) | 1 1/8 (28.6) |

## How to Order

**F1** — **F6** — **M10** — **S90** — **B4** — **316**

| Filter Series | Inlet Type                             | Inlet Size            | Outlet Type                       | Outlet Size                                                       | Element Type      | Element Nominal Pore Size | Bypass Port for F1 | Body Material         |
|---------------|----------------------------------------|-----------------------|-----------------------------------|-------------------------------------------------------------------|-------------------|---------------------------|--------------------|-----------------------|
| <b>F1</b>     | <b>FNPT</b> Female NPT                 | 2 1/8 in.             | Same as inlet type and inlet size | If outlet and inlet are the same, eliminate the outlet designator | <b>S</b> Sintered | Sintered                  | None               | <b>316</b> 316 S.S.   |
|               | <b>NPT</b> Male NPT                    | 4 1/4 in.             |                                   |                                                                   | <b>T</b> Strainer | <b>05</b> 0.5µm           | <b>B2</b> FNPT2    | <b>316L</b> 316L S.S. |
|               | <b>FBT</b> Female BSPT                 | 6 3/8 in. or 6 mm     |                                   |                                                                   |                   | <b>2</b> 2µm              | <b>B4</b> FNPT4    | <b>304</b> 304 S.S.   |
|               | <b>MBT</b> Male BSPT                   | 8 1/2 in. or 8 mm     |                                   |                                                                   |                   | <b>7</b> 7µm              | <b>B8</b> FNPT8    | <b>304L</b> 304L S.S. |
|               | <b>FMS</b> Female ISO 261              | 10 10 mm              |                                   |                                                                   |                   | <b>15</b> 15µm            | <b>F2</b> F2       | <b>BR</b> Brass       |
|               | <b>MS</b> Male ISO 261                 | 12 3/4 in. or 12 mm   |                                   |                                                                   |                   | <b>40</b> 40µm            | <b>F4</b> F4       |                       |
|               | <b>FBP</b> Female BSPP                 | 14 14 mm or M14 x 1.5 |                                   |                                                                   |                   | <b>60</b> 60µm            | <b>F6</b> F6       |                       |
|               | <b>MBP</b> Male BSPP                   | 16 1 in. or 16 mm     |                                   |                                                                   |                   | <b>90</b> 90µm            | <b>F8</b> F8       |                       |
|               | <b>F</b> Fractional Tube Fitting       | 18 18 mm              |                                   |                                                                   |                   | <b>100</b> 100µm          |                    |                       |
|               | <b>M</b> Metric Tube Fitting           | 20 1 1/4 in. or 20 mm |                                   |                                                                   |                   | <b>150</b> 150µm          |                    |                       |
|               | <b>FSW</b> Fractional Tube Socket Weld | 22 22 mm or M22 x 1.5 |                                   |                                                                   |                   | <b>250</b> 250µm          |                    |                       |
|               | <b>FBW</b> Fractional Tube Butt Weld   | 25 25 mm              |                                   |                                                                   |                   | <b>450</b> 450µm          |                    |                       |
|               | <b>GFS</b> Male GFS Fitting            |                       |                                   |                                                                   |                   |                           |                    |                       |

**По вопросам продаж и поддержки обращайтесь:**

Алматы (7273)495-231  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Россия (495)268-04-70

Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Казахстан (7172)727-132

Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93